Tangshan Puda Comprehensive Manual (Full Face Series) [English translation]

ACKNOWLEDGEMENT

This translation was produced based on the original manual, which is entirely in Chinese. The original manual can be accessed via the link below in PDF format: Tangshan Puda Comprehensive Manual (Full Face Series).pdf

The individual credited as the author of this translation, who prefers to be identified as Muhammad Hazim or ZimUnknown, is not the original translator, as he lacks proficiency in the Chinese language. The translation was produced using an artificial intelligence system (DeepSeek) and a translation engine (Google Translate). Over simplification may appear in the translation.

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User Manual

This manual applies to: Puda Series Full Face Masks

The "Puda" series full-face anti-gas masks comply with the GB2890-2022 Respiratory Protection—Self-contained Filtering Anti-gas Masks standard.

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Usage Limitations

1. The "Puda" series full-face masks must be used with external equipment such as filter cartridges or filter canisters. The mask alone has no protective properties and cannot be used independently.
2. The "Puda" series full-face masks do not supply oxygen when used with filter cartridges or canisters. Do not use in environments with oxygen concentrations below 18%.
3. Do not use the "Puda" series full-face masks under the following conditions:
    a. Contaminant concentrations reach levels immediately dangerous to life and health (IDLH);
    b. Contaminants are unknown;
    c. When using Level 1 filter cartridges, the toxic gas concentration must not exceed 0.1%; with Level 2 filter canisters, ≤0.3%; with Level 3 filter canisters, ≤0.5%.
4. If the type or concentration of toxic gases in the environment cannot be determined, use isolated environment equipment (e.g., air respirators, long-tube respirators).
5. For special usage scenarios, consult technical personnel from Tangshan Puda Protective Equipment Factory.
6. Do not modify, misuse, or abuse the mask.
7. If facial hair or other factors prevent a tight seal between the mask and face, select a suitable mask.

Inspection Procedure

Inspect the "Puda" anti-gas mask before each use. Replace immediately if damaged. Inspection steps:

1. Check for cracks, tears, or deformities, especially on the sealing edges.
2. Ensure head straps are intact and elastic.
3. Verify all components (head straps, lenses, inner mask, exhalation valve, rubber rings) are securely connected and undamaged.

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Cleaning and Storage

1. After each use, remove filter cartridges/canisters and clean the mask.
2. Wipe the mask surface (excluding filters) with alcohol-dampened cloth. Do not use water on fog-prone lenses.
3. Store cleaned masks away from contaminated areas and direct sunlight.
4. Store unused filter cartridges in sealed containers. Seal filter canisters with caps and rubber plugs to prevent moisture.
5. Shelf life (original packaging):
    - Filter cartridges: 3 years
    - Filter canisters: 5 years
    - Full-face masks: 5 years

Assembly Instructions

Applicable to: Puda 4001, 4002, 4003, 4010, 4011, 4012 Series

Filter Installation/Removal

1) Filter Canister (Figure 1):

1. Open the central port cover.
2. Check the canister's integrity and expiry date.
3. Remove the canister's cap and rubber plug.
4. Align the canister's threads with the mask's central port and rotate clockwise until fully tightened.
5. To remove, rotate counterclockwise.

2) Hose (Figure 2):

1. Open the central port cover.
2. Align the hose's threads with the mask's central port and rotate clockwise until fully tightened.
3. To remove, rotate counterclockwise.

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Assembly Instructions

Applicable to: Puda 4006, 4008, 4016 Series

Filter Installation/Removal

1) Filter Pad (Figure 3):

1. Open side port covers.

2. Align filter pad grooves with mask protrusions, press together, and rotate clockwise to secure.
3. Repeat for the other side.
4. Rotate counterclockwise to remove.

2) Filter Cartridge (Figure 4):

1. Open side port covers.
2. Check cartridge integrity and expiry date.
3. Align cartridge notches with mask protrusions, press, and rotate ¼ clockwise.
4. Rotate ¼ counterclockwise to remove.

3) Filter Cartridge with Particulate Pad (Figure 5):

1. Insert pad (printed side facing up) into the pad cover.
2. Press cartridge into the cover until it clicks.
3. Ensure full coverage.
4. To replace, pull pad cover upward.

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Assembly Instructions

Applicable to: Puda 4007, 4009, 4017 Series

Filter Installation/Removal

1) Filter Pad (Figure 6):

1. Open the side port covers.

2. Align the filter pad's grooves with the mask's protrusions, press together, and rotate clockwise to secure.
3. Repeat for the opposite side.
4. Rotate counterclockwise to remove.

2) Filter Cartridge (Figure 7):

1. Open the side port covers.
2. Check the cartridge's integrity and expiry date.
3. Align the cartridge's notch with the mask's protrusion, press, and rotate ¼ clockwise to lock.
4. Rotate ¼ counterclockwise to remove.

3) Filter Cartridge with Particulate Pad (Figure 8):

1. Place the pad (printed side up) into the pad cover.
2. Press the cartridge into the cover until it clicks.
3. Ensure full coverage.
4. To replace, pull the pad cover upward.

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4) Filter Canister (Figure 9):

1. Open the central port cover.
2. Check the canister's integrity and expiry date.
3. Remove the canister's cap and rubber plug.
4. Align the canister's threads with the mask's central port and rotate clockwise until fully tightened.

5. Unscrew counterclockwise to remove.

5) Air Duct (Figure 10):

1. Open the central port cover.
2. Align the duct's threads with the port and rotate clockwise to secure.
3. Unscrew counterclockwise to remove.

Note:

- This mask supports dual configurations: **side filter cartridges or central filter canister**. **Do not use both simultaneously.**
- When using the central canister, seal the side ports with covers.
- When using side cartridges, seal the central port with a cover.

Donning Instructions

Applicable to: Puda Series Full Face Masks

1. Loosen the head straps and position the mask over your face (Figures 11, 12).

2. Tighten the straps sequentially:
    - First, adjust the neck strap, then the crown strap.
    - Avoid over-tightening (Figure 13).
3. Perform a **seal check** after donning.

Seal Check

1) For Filter Pads/Cartridges (Figure 14):

1. Press the mask's center to block airflow.

2. Inhale slowly. If the mask collapses slightly with no air leakage, the seal is effective.

3. If leaks occur, readjust straps and repeat.

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2) For Filter Canister (Figure 15):

1. Cover the canister's inlet with your palm.
2. Inhale slowly. Check for mask collapse and absence of leaks.
3. If leaks persist, readjust the straps.

WARNING: Do not enter contaminated areas if a proper seal cannot be achieved!

Filter Lifespan

- Use the "Puda" filters **strictly within** their printed expiry dates.
- The lifespan of them depends on:
    1. User activity (breathing rate).
    2. Contaminant concentration and volatility.
    3. Environmental conditions (humidity, pressure, temperature).
    4. Maintenance practices.
- Replace filters immediately if:
    1. The expiry date has been reached.
    2. Contaminants are detected during use.
    3. Breathing resistance increases significantly.

Filter Colour Codes & Protection Times									
Filter Type	Colour	Test Agent	Level 3		Level 2		Level 1		Breakthrough (mL/m³)
			Test medium concentration (mg/L)	Protection time (min)	Test medium concentration (mg/L)	Protection time (min)	Test medium concentration (mg/L)	Protection time (min)	
A	Brown	Cyclohexane	17.5	≥105	10.5	≥60	3.5	≥60	10
B	Grey	Hydrocyanic acid (Cyanogen chloride)	5.6 (3)	≥63 (≥50)	3.4 (1.1)	≥27 (≥23)	1.1 (0.6)	≥25 (≥22)	10^6
E	Yellow	SO_2	13.3	≥30	8.0	≥23	2.7	≥25	5
K	Green	NH_3	3.6	≥55	2.1	≥25	0.76	≥25	25
CO	White	CO	5.8	≥100	5.8	≥27	5.8	≥20	50
Hg	Red	Mercury	0.01	≥4800	0.01	≥3000	0.01	≥2000	0.1
H_2S	Blue	H_2S	7.1	≥110	4.2	≥35	1.4	≥35	10
Total C_2N_2 + HCN concentration must not exceed 10 mL/m³.									

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Product Selection

4001 Full Face Mask	4002 Full Face Mask	4003 Full Face Mask
4004 Full Face Mask	4005 Full Face Mask	4006 Full Face Mask
4007 Full Face Mask	4008 Full Face Mask	4009 Full Face Mask

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4010 Full Face Mask	4011 Full Face Mask	4012 Full Face Mask
4013 Full Face Mask		4014 Full Face Mask
Blue: H_2S2 (Original No.8 Small Canister)	Grey: B2 (Original No.1 Small Canister)	White: CO2 (Original No.5 Small Canister)
Brown: A2 (Original No.3 Small Canister)	Green: K2 (Original No.4 Small Canister)	Yellow: E2 (Original No.7 Small Canister)

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Blue: H_2S3 (Original No.8 Medium Canister)	**Grey:** B3 (Original No.1 Medium Canister)	**White:** CO3 (Original No.5 Medium Canister)
Green: K3 (Original No.4 Medium Canister)	**Yellow:** E3 (Original No.7 Medium Canister)	**Brown:** A3 (Original No.3 Medium Canister)
Grey: B1 (Original No.1 Cartridge)	**Blue:** H_2S1 (Original No.8 Cartridge)	**Green:** K1 (Original No.4 Cartridge)

Yellow: E1 (Original No.7 Cartridge)

Brown: A1 (Original No.3 Cartridge)

2091 Pad	LCH20	LDH205

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